

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A connection system for connecting ~~at least one a~~ contact (1a, 1b, 1c, 1d, 1e, 1f, 1g) of ~~a at least one~~ flat block of components (2) to ~~an at least one~~ apparatus, the connection system comprising: (3a, 3b, 3c),

~~Having a~~ conductive connecting element (4a, 4b, 4c, 4d, 4e, 4f, 4g), ~~connected electrically coupled conductively to the at least one contact (1a, 1b, 1c, 1d, 1e, 1f, 1g) of the flat block of components; (2), and~~

a clamping device (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h), ~~connected electrically coupled conductively to the apparatus,~~

~~in which wherein~~ the clamping device (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h) is embodied for ~~receiving receives~~ the connecting element (4a, 4b, 4c, 4d, 4e, 4f, 4g) and thus via the connecting element (4a, 4b, 4c, 4d, 4e, 4f, 4g) making an electrically conductive connection ~~between the apparatus (3a, 3b, 3c) and the contact (1a, 1b, 1c, 1d, 1e, 1f, 1g) of the flat block of components (2),~~

~~characterized in that wherein~~ the connecting element (4a, 4b, 4c, 4d, 4e, 4f, 4g) ~~connected connects to the at least one contact (1a, 1b, 1c, 1d, 1e, 1f, 1g) of the flat block of components (2) is embodied as is~~ a rigid conductor, the rigid conductor being a screw fastened conductively to the contact, and

wherein the screw penetrates a bore in the flat block of components and is locked by a nut on a second side of the flat block of components, which is opposite a first side of the flat block of components. and

~~that the at least one connecting element (4a, 4b, 4c, 4d, 4e, 4f, 4g) engages the at least one clamping device (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h) of the at least one apparatus (3a, 3b, 3c) directly and is thus connected directly to the clamping device (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h).~~

2. (Currently Amended) The connection system as defined by claim 1, ~~characterized in that wherein~~ the flat block of components (2) is a printed circuit board. ;

~~—the rigid conductor forming the connecting element (4g) is a tongue of printed circuit board material; and~~

~~—the at least one contact (1g) is a conductor track disposed on the tongue of printed circuit board material.~~

3. (Cancelled)

4. (Currently Amended) The connection system as defined by claim 23,
~~characterized in that further comprising an inverter one or more rectifiers for one or more inverters of a magnetic resonance gradient amplifier, the inverter comprising a rectifier, which is~~ are disposed on the printed circuit board (2) and ~~are is~~ connected ~~coupled to one or more associated the apparatus. apparatuses (3a, 3b, 3c) via one or more connecting elements (4a, 4b, 4c, 4d, 4e, 4f, 4g) and one or more clamping devices (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h).~~

5. (Currently Amended) The connection system as defined by claim 1, ~~one of the foregoing claims,~~

~~characterized in that wherein the connection system connects a plurality of is embodied for connecting many contacts (1a, 1b, 1c, 1d, 1e, 1f, 1g) of the at least one flat block of components (2) to many to a plurality of clamping devices, including the clamping device, (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h) of the at least one apparatus, (3a, 3b, 3c),~~

~~and the at least one connecting element is elements (4a, 4b, 4c, 4d, 4e, 4f, 4g) are disposed on the at least one flat block of components (2) in accordance with the disposition of the clamping devices (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h).~~

6. (Currently Amended) The connection system as defined by claim 1, ~~one of the foregoing claims,~~

~~characterized in that wherein the at least one clamping device (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h) is a screw terminal (5a, 5b, 5c, 5g) or a spring clip (5e, 5f, 5g, 5h).~~

7. (Currently Amended) The connection system as defined by claim 1, ~~one of the foregoing claims,~~

wherein the connection system ~~characterized in that it is suited to conduct for~~
~~conducting~~ voltages of over 24 volts, preferably over 120 volts, and especially preferably
~~over 240 volts and/or currents of over 0.5 ampere, or the combination thereof. preferably~~
~~over 1 ampere, and especially preferably over 10 amperes.~~

8. (Currently Amended) A flat block of components (2) ~~comprising: having~~
~~at least one a~~ contact (1a, 1b, 1c, 1d, 1e, 1f, 1g) ~~for connection that is coupled to~~
~~an~~ at least one apparatus (3a, 3b, 3e), which is ~~has an electrically conductively coupled to~~
~~a~~ clamping device, and (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h),

~~in which the flat block of components (2) has a~~ conductive connecting element
(4a, 4b, 4c, 4d, 4e, 4f, 4g) ~~electrically coupled connected electrically conductively to the~~
at least one contact (1a, 1b, 1c, 1d, 1e, 1f, 1g),

~~wherein the conductive~~ ~~characterized in that~~ connecting element (4a, 4b, 4c, 4d,
4e, 4f, 4g) ~~connected to the at least one contact (1a, 1b, 1c, 1d, 1e, 1f, 1g) of the flat block~~
~~of components (2) is embodied as is~~ a rigid conductor, the rigid conductor being a screw
fastened electrically to the ~~at least one~~ contact, and

~~wherein the screw penetrates a bore in the flat block of components and is locked~~
~~by a nut on a second side of the flat block of components, which is opposite a first side of~~
~~the flat block of components.~~

~~that the connecting element (4a, 4b, 4c, 4d, 4e, 4f, 4g) is embodied such that it can~~
~~directly engage the clamping device (5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h) of the apparatus (3a,~~
~~3b, 3e) and thus can be connected directly to the clamping device (5a, 5b, 5c, 5d, 5e, 5f,~~
~~5g, 5h).~~

9 – 14. (Cancelled)

15. (Currently Amended) The connection system as defined by claim 1, The
apparatus (3a, 3b, 3e) as defined by claim 14,

~~characterized in that~~ wherein the at least one clamping device (5a, 5b, 5c, 5d, 5e, 5f,
5g, 5h) of the at least one apparatus is disposed ~~furnished~~ directly on the at least one
apparatus (3a, 3b, 3e) or coupled to the apparatus via a one or more separate securing
robot robots electrically coupled ~~connected~~ to the apparatus.

16. (Currently Amended) The connection system as defined by claim 8, The apparatus (3a, 3b, 3c) as defined by claim 15,

~~characterized in that~~ wherein a plurality of securing robots are disposed in a row on a distributor busbar.

17. (Currently Amended) The connection system as defined by claim 16, The apparatus (3a, 3b, 3c) as defined by one of claims 14 through 16,

~~characterized in that it is as~~ wherein the apparatus is a transformer that furnishes for ~~furnishing~~ a potential-free supply voltage for full bridge inverters of a magnetic resonance gradient amplifier.

18. (New) The connection system as defined by claim 1, wherein the connecting element directly engages the clamping device of the apparatus.

19. (New) The connection system as defined by claim 1, wherein the screw has a head which is electrically coupled with the contact on the first side of the flat block of components.

20. (New) The connection system as defined by claim 1, wherein the nut is electrically coupled with the contact on the second side of the flat block of components.

21. (New) The connection system as defined by claim 19, wherein the head of the screw is soldered or welded to the contact.

22. (New) The connection system as defined by 1, wherein the nut is soldered or welded to the contact.

23. (New) The flat block of components as defined by claim 8, wherein the connecting element is directly coupled to the clamping device of the apparatus.

24. (New) The flat block of components as defined by claim 8, wherein the flat block of components is a printed circuit board.

25. (New) The flat block of components as defined by claim 24, further comprising an inverter of a magnetic resonance gradient amplifier, the inverter comprising a rectifier which is disposed on the printed circuit board and is connected to the apparatus.

26. (New) The flat block of components as defined by claim 8, wherein the screw has a head that is electrically coupled with the contact on the first side of the flat block of components.

27. (New) The flat block of components as defined by claim 8, wherein the nut is electrically coupled with the contact on the second side of the flat block of components.

28. (New) The flat block of components as defined by claim 26, wherein the head of the screw is soldered or welded to the contact.

29. (New) The flat block of components as defined claim 27, wherein the nut is soldered or welded to the contact.